	Application No.	Applicant(s)		
Notice of Allowability	10/791,022	YU, TA-LEE		
	Examiner	Art Unit		
	Johannes P. Mondt	3663		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	pplication. If not include on will be mailed in due	ded e course. THIS	
1. \boxtimes This communication is responsive to <u>10/18/06 Amendment</u>	t under 37 C.F.R. 1.111).			
2. X The allowed claim(s) is/are 32,33,35,37,38, 47 and 49-54.				
 Acknowledgment is made of a claim for foreign priority unally and All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority documents have an accordance of the priority documents have a priority documents have a priority documents have a priority document hav	been received. been received in Application No		ation from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	equirements	
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 			NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the 	on's Patent Drawing Review (PTC) s Amendment / Comment or in the 84(c)) should be written on the draw	Office action of ings in the front (not the	e back) of	
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGIO	must be submitted. CAL MATERIAL.	Note the	
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application		
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		 6. ☐ Interview Summary (PTO-413), Paper No./Mail Date 7. ☐ Examiner's Amendment/Comment 		
Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date				
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem 9. □ Other	ent of Reasons for All	owance	
	Examinet: Joh	annes Mondt	3663)	

DETAILED ACTION

Response to Amendment

Amendment filed 10/18/06 forms the basis for this office action. In said

Amendment applicant substantially amended all claims at least through substantial amendment of independent claims 32 and 49.

The objection to the Drawings has been overcome by said amendment as there is no reference to said multiple bipolar transistors: item 3 of objection to claims also has been overcome by the same amendment, see lines 20-21 of claim 32.

The objections ad section 1 and 2 under "Claim Objections" have been overcome by amendment (see amendments to claim 32).

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with J. Powers (Reg. No.: 47,006) on January 3, 2006.

BEGIN PROPOSED EXAMINER'S AMENDMENT

 In Claim 32, line 23, the wording "to N horizontal stripe conductor elements" has been replaced by "with N horizontal stripe conductor elements". Application/Control Number: 10/791,022

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2. In Claim 32, lines 29-30, the wording "conductor elements so that said horizontal stripe conductor elements are electrically connected to each other" has been replaced by "conductor elements".

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- 3. In Claim 32, lines 34-35, the wording "on laterally opposite ends" has been replaced by: "at laterally opposite ends".
- 4. In Claim 33, line 2, the wording: "with the associated connected first semiconductor layer" has been replaced by: "with the first semiconductor layer".
- 5. In Claim 33, line 4, the wording "and associated with said plurality" has been replaced by "together with said plurality".
- 6. In Claim 35, line 4, the wording "input/output pin" has been replaced by "input pin or output pin".
- 7. In Claim 49, line 11, the wording: "layer having a top element making" has been replaced by ", wherein a top element makes".
- 8. In Claim 49, lines 24-25, the wording "conductor elements so that said horizontal stripe conductor elements are electrically connected to each other" has been replaced by: "conductor elements".
- 9. In Claim 49, line 29, the wording "second one of said first +-type regions" has been replaced by "second one of said first n+ type regions".
- 10. In Claim 49, line 29, the wording: "on laterally opposite ends" has been replaced by "at laterally opposite ends".

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11. In Claim 50, line 2, the wording: "with the associated connected n+-type layer" has been replaced by: "with the n+-type semiconductor layer".

- 12. In Claim 50, line 4, the wording "and associated with the plurality" has been replaced by "together with the plurality".
- 13. In Claim 51, line 4, the wording "input/output pin" has been replaced by "input pin or output pin".

END PROPOSED EXAMINER'S AMENDMENT

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 32-33, 35, 37-38, 47 and 49-54 are allowed because, strictly within the context of the invention as otherwise defined by claims 32 and 49, the combination of emitter, collector and base regions over first, second, and third semiconductor layers over the semiconductor substrate as claimed, particularly, as arranged in electrical connection, said electrical connection being defined as the electrical connection by a conductor element with N horizontal stripe elements as recited in independent claims 32 and 49, have not been found in the prior art and have not been found obvious over the prior art including Chen et al as cited.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Johannes P. Mondt whose telephone number is 571-272-1919. The examiner can normally be reached on 8:00 - 18:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack W. Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JPM January 3, 2007

Patent Examiner:

ohannes Mondt (Art Unit: 3663)